

PS116-99 Provisional Practice for the Performance Evaluation of the Portable X-Ray Fluorescence Spectrometer for the Measurement of Lead in Paint Films

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1. Scope

1.1 This provisional practice covers portable X-ray fluorescence (XRF) instruments intended for the measurement of lead in paint. It is intended that manufacturers apply the provisional practice to one unit of a particular model of an instrument when that model is initially available. Replicate tests on additional units of the same model of an instrument are to be performed at the discretion of the manufacturer. This provisional practice is also intended for use by third parties performing independent evaluation of portable X-ray fluorescence instruments.

1.2 All performance evaluation data are to be in International System of Units (SI) units.

1.3 Test of performance are based on replicate measurements of Certified Reference Paint Films on a variety of substrate materials. Tests are performed to determine: bias, precision, linearity, limit of detection, interferences, substrate affects, and stability.

1.4 This provisional standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

1.5 Provisional standards achieve limited consensus through approval of the sponsoring subcommittee.

Adopted by:

Developed by ASTM Subcommittee: [E06.23](#)

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